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Please amend Claims 1-6 as follows:

- 1. (amended) A thermal profiling device comprising:
- a packaging substrate having an upper surface;
- a semiconductor die having an active circuit surface secured directly to the upper surface of the packaging substrate; and
 - a thermocouple secured directly to the active circuit surface of the semiconductor die.
- 2. (amended) The thermal profiling device of Claim 1 wherein the thermocouple is secured using an adhesive.
- 3.(amended) The thermal profiling device of Claim 2 wherein the adhesive comprises an epoxy.
- 4. (amended) The thermal profiling device of Claim 1 wherein the active circuit surface has electrically conductive bumps formed thereon and the upper surface of the packaging substrate includes a plurality of bonding pads wherein the semiconductor die is positioned on the packaging substrate such that the electrically conductive bumps are in electrical contact with the plurality of bonding pads.
- 5. (amended) The thermal profiling device of Claim 4 wherein the packaging substrate and the semiconductor die are secured in place by a solder bond between the electrically conductive bumps and the plurality of bonding pads.

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6. (amended) A thermal profiling device comprising:

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a packaging substrate having a first surface and a second opposite surface;

an opening passing through the second opposite surface and through the first surface of the packaging substrate;

a semiconductor die having an active circuit surface secured directly to the first surface of the packaging substrate; and

a thermocouple positioned inside the opening and secured directly to the active circuit surface of the semiconductor die.

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